# BSL-3 Laboratory/Facility Certification Scheme

The Singapore's Approach

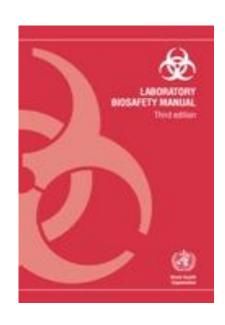
Se Thoe Su Yun Singapore Ministry of Health

# **Facility Certifier**

- Third Party Facility Certifier (in the presence of MOH officers)
- Approved by Singapore MOH (MOH-AFC)
- Criteria
  - A team of at least 2 members\*, a qualified BSP and an engineer
  - Experience in certifying\* and/or commissioning BSL-3 facility
  - Track record of company and team members
  - Good testimonial\* from past clients
  - Using MOH Certification Checklist as a basis of certifying

### **Certification Checklist**

Expanded from the WHO Laboratory Biosafety Manual (3rd ed.)
Certification Checklist



# **Certification Checklist**

### **Additional criteria**

### MOH

### **Engineering Verification**

- Redundancy
- Failure scenario

### **BATA** Criteria

- Control possession, material tracking and transportation
- Personnel screening and control access
- Training
- Emergency response
- Risk assessment record & IBC's approval



BIOLOGICAL AGENTS AND TOXINS ACT

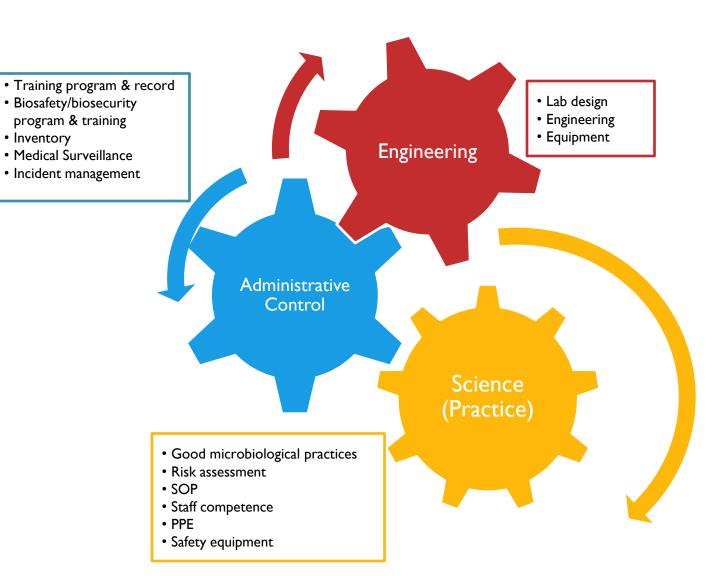
(CHAPTER 24A)

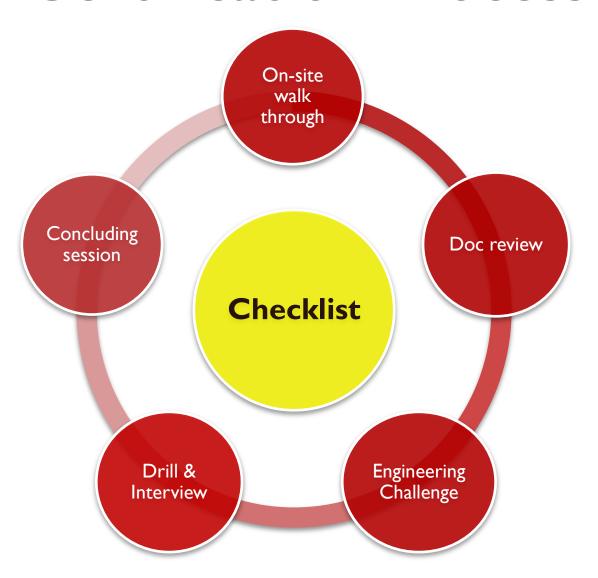
www.biosafety.moh.gov.sg

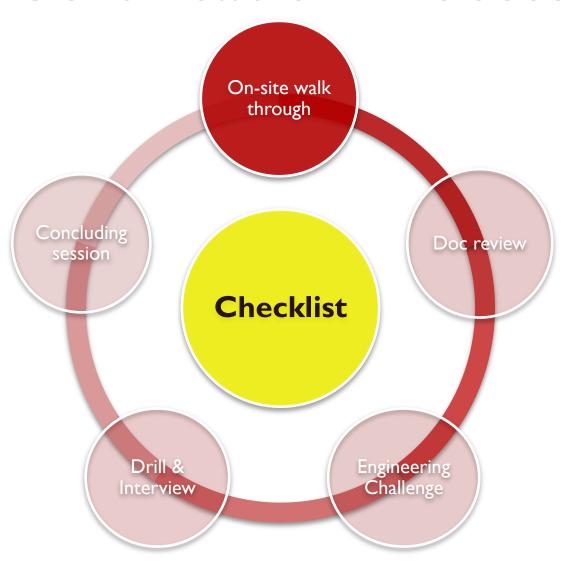
### Certifier

- CDC/NIH Guidelines (BSL-3 and ABSL-3)

# **Scope of Certification**





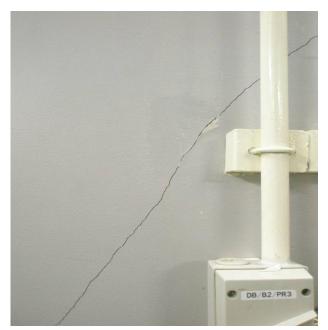


# Outside the Lab









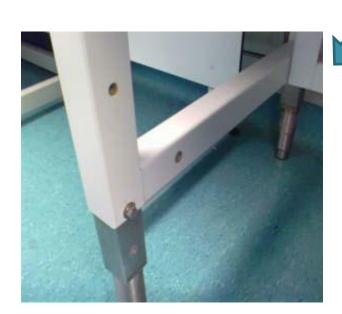


Crack on the wall

Holes in BSC stand

Overloaded power point









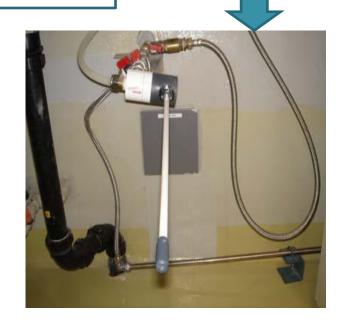


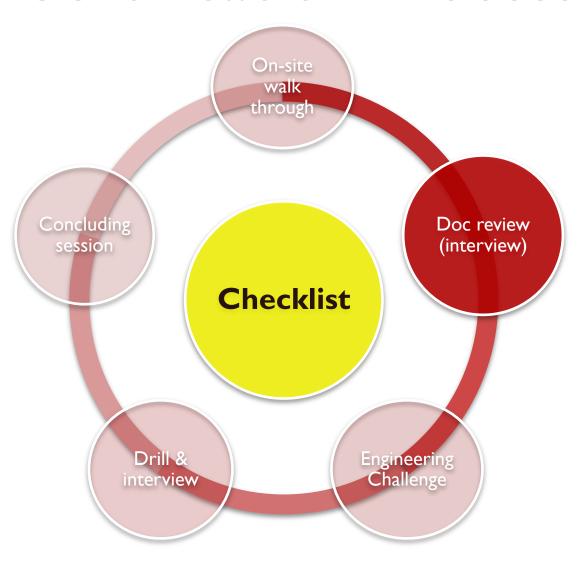
Use of glass bottle in BSL-3 Lab

"General" waste bag used in BSL-3 Lab Hand-free device for hand washing sink





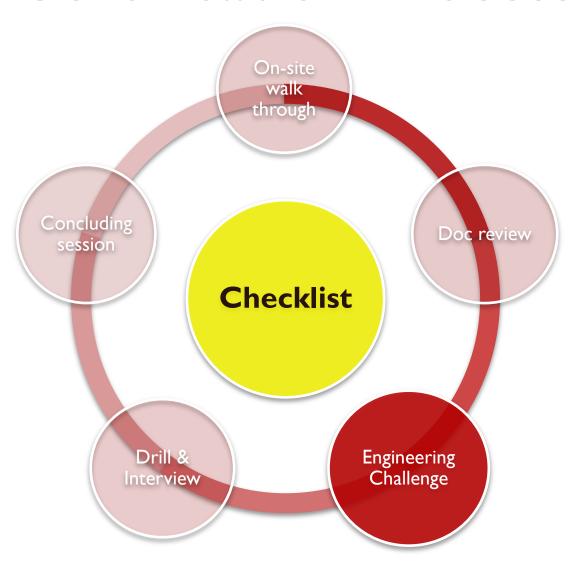




- SOPs
- Risk Assessment record
- Training record
- Equipment maintenance record
- Incident record
- Personnel entry record
- Inventory record
- Etc

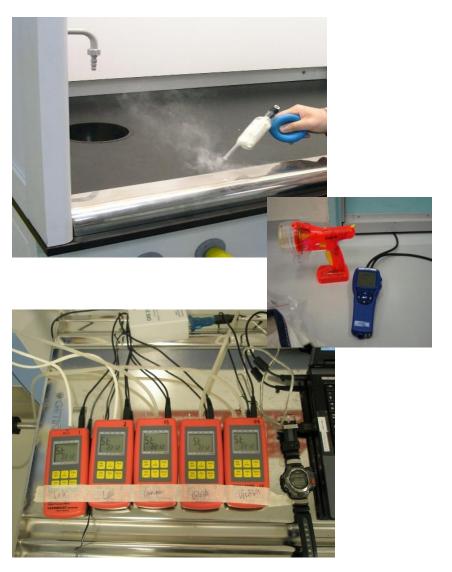
### Interview

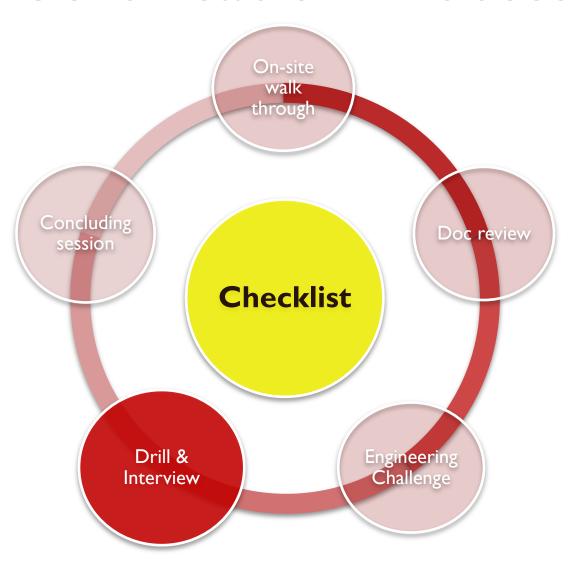
- Knowledge the agents, the risks, the safe practice, SOPs, etc
- Practical PPE, SOPs, etc
- New staff











### **In-house ER**

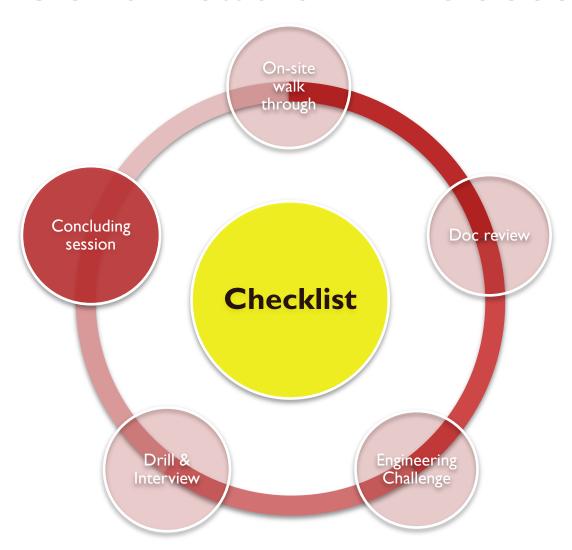
- unconscious casualty
- biological spill





# Joint- Emergency Response

with the Singapore Civil Defence Force (SCDF) not during the facility certification process





### I day - I wk (or several mth)

- New facility / "new" certifier
- Number & seriousness of the noncompliance identified

More than documentation review

### **Certificate valid for**

- I year; or
- Upon any design or structural change made to the facility, whichever is the earlier

THANK YOU